

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#6/A 12/11/02 Houish

In re the Application of: KANO, Takashi et al.

Group Art Unit: 2812

Serial No.: 09/941,982

Examiner: MULPURI, Savitri

Filed: **August 30, 2001**

P.T.O. Confirmation No.: 7536

For:

METHOD OF FORMING NITRIDE-BASED SEMICONDUCTOR

LAYER, AND METHOD OF MANUFACTURING NITRIDE-BASED SEMICONDUCTOR DEVICE

AMENDMENT UNDER 37 CFR §1.111

Commissioner for Patents Washington, D.C. 20231

November 27, 2002

Sir:

In response to the Office Action dated June 28, 2002, please amend the above dentified application as follows:

IN THE CLAIMS:

Please cancel Claims 6 and 15 without prejudice or disclaimer.

Please amend Claims 1 and 10, as follows:

1. (Amended) A method of forming a nitride-based semiconductor layer, comprising the steps of:

growing a buffer layer of $Al_xGa_{1-X}N$ ($0 \le X \le 1$) on a substrate at a growth rate of at least

7Å/sec; and

growing a nitride-based semiconductor layer of $A1_aB_bIn_cT1_dGa_{1-a-b-c-d}N$ ($0 \le a < 1$, $0 \le b < 1$, $0 \le c < 1$, $0 \le d < 1$, a+b+c+d < 1) on said buffer layer, wherein

said step of growing the buffer layer comprises growing said buffer layer to have a film thickness in the range from 50Å to 300Å.